



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

PCTEST ENGINEERING LABORATORY, INC.
Columbia, MD

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005*).



Presented this 27th day of June 2008.

A handwritten signature in black ink, appearing to read "Peter Abney".

President
For the Accreditation Council
Certificate Number 2041.01
Valid to May 31, 2010

For the tests or types of tests to which this accreditation applies,
please refer to the laboratory's Electrical Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

PCTEST ENGINEERING LABORATORY, INC.

6660-B Dobbin Road

Columbia, MD 21045

Randy Ortanez Phone: 410 290 6652

ELECTRICAL

Valid To: May 31, 2010

Certificate Number: 2041.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following types of Wireless tests on CDMA and AMPS handsets (cell phones), electromagnetic compatibility and telecommunications tests:

Test Technology Wireless

Test Method(s)

CDMA

3GPP2 C.S0011-C 20-Feb-2006 (TIA-98D/E/F) (*excluding Sections 3.2.1.3, 3.2.3.2, 3.3.3, 3.3.4, 3.3.5, 3.3.6, 3.4.6, 3.4.8, 3.4.10, 3.4.11, 3.4.12, 3.4.13, 3.7.2, 4.4.8, 4.4.9.2.1, 4.4.10, 4.4.11*)
3GPP2 C.S0031-0 15-Oct-2001 (TIA-EIA-898) (*excluding Sections 2.23, 3.3, 3.9.1, 6.12, 9.8, 10.1 receive, 11.15, 13.5*)
3GPP2 C.S0043-0 24-Sep-2004 (TIA-1035)
3GPP2 C.S0036-0 11-Mar-2002 (TIA-916)
3GPP2 C.S0037-0 19-Apr-2002 (TIA-918)
3GPP2 C.S0056-0 22-Jul-2005 (TIA-1042)
3GPP2 C.S0060-0 06-Dec-2005 (TIA-1044)
3GPP2 C.S0061-0 22-Jun-2005 (TIA-1045)
3GPP2 C.S0062-0 14-May-2007 (TIA-1046)
3GPP2 C.S0073-0 26-Sep-2005 (TIA-1084)
CTIA Certification Program Test Plan for CDMA Mobile Stations
CCF Certification Test Plan – Laboratory

EVDO

3GPP2 C.S0033-0 12-Dec-2003 (TIA-866)
3GPP2 C.S0033-A 14-Dec-2005 (TIA-866)
3GPP2 C.S0038-0 19-Apr-2002 (TIA-919)
3GPP2 C.S0038-A 26-Sep-2005 (TIA-919)
3GPP2 C.S0037-0 19-Apr-2002 (TIA-918)
CTIA Certification Program Test Plan for CDMA Mobile Stations
CCF Certification Test Plan – Laboratory

AMPS	TIA/EIA-553 TIA-690 CTIA Certification Program Test Plan for AMPS Mobile Stations; CTIA Certification Program Mobile Station Authentication Test Plan
OTA	CTIA Test Plan for Mobile Station OTA Performance for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO Data, CDMA 1xRTT Data.
TTY	ANSI-136, IS-95 Generic Inter-vendor TTY Test Plan Ver. 1.2
Hearing Aid Compatibility	ANSI C63.19; CTIA Test Plan for Hearing Aid Compatibility
SAR (Specific Absorption Rate)	IEEE 1528, RSS-102, EN 50360, EN 50361, EN 62209-1, IEC 62209-1, IEC 62209-2, FCC OET Bulletin 65 (including Supplement C) Australian Communications Authority Radio Communications (Electromagnetic Radiation – Human Exposure) Standard 2003
Transmitter/Receiver	
Output Power	RSS 111, RSS 112, RSS 117, RSS 118, RSS 119, RSS 123,
Conducted Spurious Emissions	RSS 125, RSS 128, RSS 129, RSS 131, RSS 132,
Radiated Spurious Emissions	RSS 133, RSS 134, RSS 135, RSS 136, RSS 137,
Occupied Bandwidth	RSS 138; RSS 139, RSS 141, RSS 142, RSS 170, RSS 181,
Frequency Stability	RSS 182, RSS 188, RSS 191, RSS 192, RSS 193,
ERP/EIRP	RSS 194, RSS 195, RSS 210, RSS 213, RSS 215,
Audio Freq Response	RSS 243, RSS 287, RSS 310, RSS Gen
LP Filter Freq Response	
Modulation Limiting	
Battery Safety	CTIA Test Plan for Battery System Compliance IEEE 1725 Standard for Rechargeable Batteries for Cellular Telephones

US TCB Requirements (FCC)

Test Technology

Scope A1

Radiated Emissions
Conducted Emissions
47 CFR (FCC)

Scope A2

Radiated Emissions
Conducted Emissions
47 CFR (FCC)

Scope A3

Radiated Emissions
Conducted Emissions
47 CFR (FCC)

Test Method(s)

ANSI C63.4 (2003), FCC-MP5
ANSI C63.4 (2003)
FCC Rules parts 11, 15, 18

ANSI C63.4 (2003)
ANSI C63.4 (2003); KDB Publication No. 200443
FCC Rules part 15

ANSI C63.17 (1998), ANSI C63.17
ANSI C63.4 (2003)
FCC Rules part 15

Scope A4

Radiated Emissions
Conducted Emissions

ANSI C63.4 (2003)
ANSI C63.4 (2003); FCC Public Notice: DA 00-75 (2000);
DA 02-2138 (2002); KDB Publication 558704 (2005),
Section 15.247
FCC Rules part 15

47 CFR (FCC)

Scope B1

Transmitter EMC Compliance Testing
47 CFR (FCC)

ANSI/TIA/EIA-603-C (2004)
FCC Rules part 22, 24, 25 and 27

Scope B2

Transmitter EMC Compliance Testing
47 CFR (FCC)

ANSI/TIA/EIA-603-C (2004)
FCC Rules part 22, 74, 90, 95 and 97

Scope B3

Transmitter EMC Compliance Testing
47 CFR (FCC)

ANSI/TIA/EIA-603-C (2004)
FCC Rules part 80 and 87

Scope B4

Transmitter EMC Compliance Testing
47 CFR (FCC)

ANSI/TIA/EIA-603-C (2004)
FCC Rules part 2, 27, 74 and 101

Scope C

Telecommunication

FCC Rules part 68, TIA-968-A (2003); TIA-968-A-1 (2003);
TIA 968-A-2 (2004); T1.TRQ.6; TIA/EIA TSB-31B
TIA 968-A-3, TIA 968-A-4, TIA 968-A-5,
Industry Canada CS03